

**Abstract**

The present invention relates to methods and devices for separating particles according to size. More specifically, the present invention relates to a microfluidic method and device for the separation of particles according to size using an array comprising a network of gaps, wherein the field flux from each gap divides unequally into subsequent gaps. In one embodiment, the array comprises an ordered array of obstacles in a microfluidic channel, in which the obstacle array is asymmetric with respect to the direction of an applied field.